

**FIGURE 5-1: PROPOSED CLASS VI WELLBORE SCHEMATIC**

**WELL NAME:** Well 1 (W-N1), Well 2 (W-N2), Well 3 (W-S2)

**TD: 7,000' MD**

**OPERATOR:** Louisiana Green Fuels

## Straight Hole

**INJECTION ZONE** Between 4,900' to 7,000'

CSG/CMT	FORMATION	DEPTH	HOLE SIZE	Mud Wt.	Mud Type
30" x 1/2" wall Drive Pipe Driven to Refusal		100' pen	28" hole		
24" Potable Water Csg		300'	22" hole		
174 lb/ft, K-55 (22.624" ID)					
18-5/8" Csg - Cemented to surface w/ 525 sx 12.5 ppg Lead Slurry and 390 sx, 14.8 ppg Tail Class A					
Cane River/USDW Base @ 1,025'					
18-5/8" Surface Csg		1,200'	Frac 12.2 ppg/err	9.0 ppg	WBM
87.5 lb/ft K-55 BTC	BHT - 94 F				
13- 3/8" Csg - Cemented to surface w/ 3 stages; 1st stage 880 sx, 16.02 ppg CO2 Resistant Evercrete across the Midway Shale; 2nd stage Lead 905 sx 13.5 Class A and Tail 265 sx 14.3 ppg Class A, and 3rd stage 600 sx 13.5 ppg Class A and Tail 250 sx 14.5 ppg Class			13-3/8" Cementing Stage Tool @ 1,450' (depth to be determined) 17-1/2" hole 5-1/2", 20 lb/ft, 22CR65, Tenaris Blue OD Injection String 13-3/8" Cementing Stage Tool @ 3,000' (depth to be determined) 9-5/8" DV Tool & External Casing Packer @ 3,000'		
Midway Shale Top @ 3,128'					
13 3/8" Intermediate Csg					
61 lb/ft K-55 BTC 0 - 3,000 ft	+/- 3,900'			9.4 ppg	WBM
61 lb/ft, 13CR65 ??? 3,000 - 3,900 ft	BHT - 135° F				
Two Hydraulic Control Lines for the Down Hole Flow Control Valve			12 1/4" hole Wireline Cable for Downhole Pressure Monitoring with Pressure Gauge in Each Injection Interval		
Perforations Upper Interval- 4,910' - 5,210' Lower Interval - 5,250' - 6,990'			Acid Resistant Cement Standard Cement Injection Packer with passthroughs for hydraulic control lines and wireline for pressure gauges @ 4,800'		
Upper Interval @ 4,911' - 5,210'			9-5/8" OD Protection Casing Wireline Pressure and Temperature Gauge in Each Injection Interval		
"Smart Well" Flow Control Valve for the Injection Control into the Upper Interval			Injection Packer with passthrough for wireline pressure gauge @ 5,225'		
9 5/8" Csg - Cemented to surface w/ 2 Stage Job: Stage 1: 1,615 sx 16.02 ppg Tail CO2 Resistant Evercrete from set depth to across Midway Shale Stage 2: 640 sx 13.5 ppg Lead Class A and 145 sx 14.5 ppg Tail Class A					
Lower Interval @ 5,250' - 6,990'					
9 5/8" Protection Casing set @ TD	BHT - 190° F	PTD 7,000'		9.6 ppg	WBM
36 lb/ft K-55 Tenaris Blue or similar connection from 0' - 3,000'					
36 lb/ft 22CR65 Tenaris Blue or similar connection from 3,000' - 7,000'					